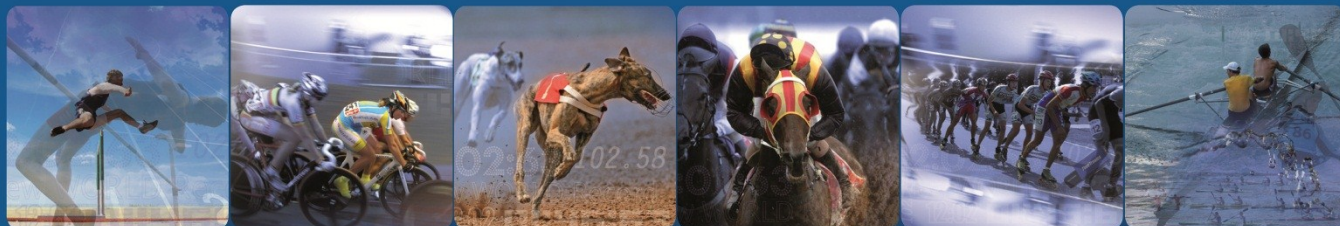


Manual Scoreboards



SPORT TIMING SYSTEMS

Version: 2012v1



TimeTronics NV
Lammerdries-Oost 23B
B-2250 Olen, Belgium

www.timetronics.be - info@timetronics.be

Table of Contents

PREFACE.....	2
1. POWER SUPPLY.....	3
2. SCOREBOARD CONNECTIONS.....	3
3. SWITCHING THE SCOREBOARD ON AND OFF.....	3
4. OPERATION IN COMBINATION WITH MACFINISH.....	4
5. INDEPENDENT OPERATION.....	4
5.1. The various (software) modes.....	4
5.1.1 Chrono mode (= Mode 1 => you see '111111').....	4
5.1.2 Concentration clock mode (=mode 2 => you see '222222').....	5
5.1.3 Day mode (=Mode 3 => you see '3333333').....	6
5.1.4 GPS mode for Electromechanical Scoreboards or LED mode for LED scoreboards.....	7
(= Mode 4 => you see '444444').....	7
5.1.5 Jumping mode (=Mode 5 => you see '555555').....	7
5.1.6 Concentration Clock (3 Digits).....	8
5.1.7 LapCounter (2 Digits or 3 x 2 Digits).....	8
6. GENERAL NOTE.....	9



PREFACE

Welcome to the "Scoreboard" user manual.

May we recommend you to gently leaf through the entire manual first, just to have an initial idea of how the book is structured. As we cannot possibly explain all details simultaneously, this might help you a bit in understanding and tracing things back. Of course, the table of contents will also help you in doing so.

Please note that all pictures are examples, the delivered version can be different than shown in this manual please inform yourself before purchase.

If you, after reading this document, have any further question regarding the operation or service of this or any other TimeTronics equipment, please contact your local distributor or TimeTronics directly, by email: info@timetronics.be, or call us at +32 (0) 14 23 19 11

Please also contact us if you have any remarks or advise regarding this user manual: info@timetronics.be.

Good luck with the scoreboard and thank you for your confidence in the TimeTronics products and services.

The editors.

© Copyright 2012 TimeTronics. All rights reserved.

TimeTronics

Lammerdries 23b

B-2250 Olen

Belgium

Tel.: +32 (0) 14 23 19 11

Disclaimer

Under no circumstances shall TimeTronics be liable for any loss, damage or expense suffered or incurred with respect to any defective product. In no event shall TimeTronics be liable for any incidental or consequential damages that you may suffer directly or indirectly from use of any product. Windows, Windows XP and Windows VISTA are registered trademarks of Microsoft Corporation.

NOTE:

This manual is valid for scoreboards with software version 39 or higher! For both Electromechanical and LED timing scoreboards. The operation is same for the electromechanical and the LED scoreboards unless mentioned in this manual.

This manual is not

1. POWER SUPPLY

- All electromechanical scoreboards and TTC408 LED Scoreboard are working on 12 VDC. These scoreboards are delivered with a battery and charger
- TTC453 LED Scoreboard is working on 12 VDC but delivered with a 100-240VAC to 12VDC converter. A battery and charger can be ordered optional

Remark:

220VAC power supply and battery chargers are not intent to use in rain condition. The user has to use appropriate water protection in case of wet conditions.

2. SCOREBOARD CONNECTIONS

Underneath the electromechanical scoreboard, you see 4 connectors; Two "male" 5pin on the left and two "female" 5pin on the right.

LED timing scoreboards:

- TTC 408: 3 connectors: power, serial in and Remote Control
- TTC 453: same as electromechanical scoreboards



3. SWITCHING THE SCOREBOARD ON AND OFF

Switch 'ON' the scoreboard by plugging the battery into the 5 thick-piled male connector named 'Battery'. By unplugging the battery, the scoreboard is switched off. Take care that the battery is always charged sufficiently before use.

For TTC453 you have to plug-in the 220VAC power supply which is standard delivered with this scoreboard.

For electromechanical Scoreboards:

After you plug in the battery, the scoreboard digits will show the following items in chronological order:

- 6x '8' : 8 8 8 8 8 8
- 6x ' ' : - - - - - (blanc)
- 3 seconds : IE (stands for original development by IE=Intersoft Electronics)
- 3 seconds : XXX (e.g.: 039) (= software version)
- short : YYYYYY (for example 111111 for scoreboard 'MODE'=1 ; explained later)
- subsequently : ?????? (depending on scoreboard 'MODE' ; explained later)

Pay attention! First switch on the scoreboard (plug in the battery) before making other connections. If not, the scoreboard may jump to a different mode (see later).

For LED Scoreboards:

After you plug in the battery, the scoreboard digits will show the following items in chronological order:

- Scoreboard software version : example TT: 0.64
- Mode number : YYYYYY (for example 111111 for scoreboard 'MODE'=1; explained later)
- Mode explanation : ?????? (depending on scoreboard 'MODE' ; explained later)

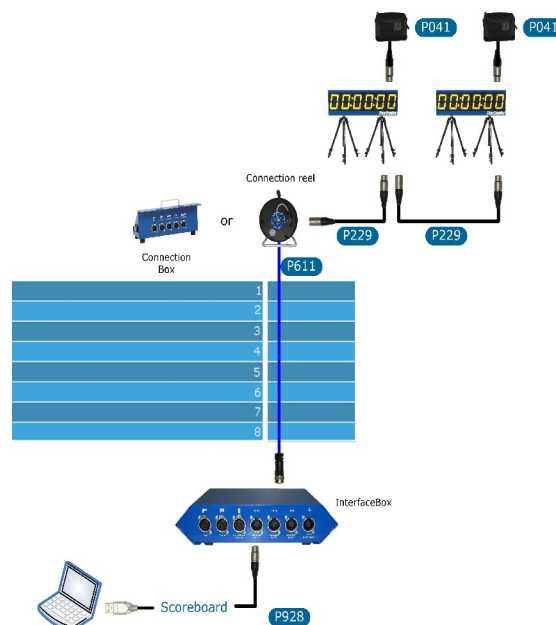
4. OPERATION IN COMBINATION WITH MACFINISH

For electromechanical scoreboards you can send the running time to the display independent of the software mode (see 4.1).

In combination with MacFinish, the scoreboard is controlled by the photo-finish program (see manual MacFinish).

For LED scoreboard you have to set the software mode 4.

Scoreboard connected to a connection reel (mobile cabling) or connection box (fixed = underground cabling).



5. INDEPENDENT OPERATION

- Independent operation means that you will operate the scoreboard manually. In other words, without connection to the MacFinish photofinish but by means of the manual control device:
- Connect the manual control into the 5 thick-piled female connector named "Remote control", underneath your scoreboard.



5.1. The various (software) modes

After 'Power ON' you will notice that the scoreboard will display, after the version number, the mode number; for example; '1 1 1 1 1 1'. This means that you are now in mode 1 (or chrono mode). Five different modes or functions are covered within your scoreboard:

1 1 1 1 1 1	(mode 1 = chrono mode)
2 2 2 2 2 2	(mode 2 = count-down mode or concentration clock mode)
3 3 3 3 3 3	(mode 3 = hour mode or day time mode)
4 4 4 4 4 4	(mode 4 = GPS mode in case of Electromechanical displays)
4 4 4 4 4 4	(mode 4 = LED mode in case of LED displays)
5 5 5 5 5 5	(mode 5 = jumping mode)
6 6 6 6 6 6	(mode 6 = WindSpeed mode)

To switch from one mode to another, it is sufficient to **simultaneously** press the three buttons on your manual control and to release them again.



You will notice that all digits on your scoreboard will display the selected mode number for one second. After mode 5 follows mode 1

5.1.1 Chrono mode (= Mode 1 => you see '111111')

The chrono mode is used to display the running time. After '1 1 1 1 1 1', six 'zeroes' will appear on your scoreboard, meaning that your scoreboard is now ready for a start.

The digits go from 0 (zero) to 59:59:99 and again turn to 0. The hundredths of a second are normally displayed at 'STOP' and 'LAP'.



- The Start**



To start the running time, press the "Start"-button on your Scoreboard Remote Control.



The scoreboard displays the running time minutes and seconds.

- Manual Split Time**



If you wish to generate a manual split time, press the 'LAP/RESET'-button:



The scoreboard will now display a split time up to one hundredth of a second. For example:

This display is frozen for as long as you do not press any other buttons. Display the running time (internal clock) by pressing the 'LAP/RESET'-button or 'START'-button again.

You will notice that the running time jumps to the real time of the race. The clock continues to run and at the following split point you can again generate a split time.



- Final Time**

- To reset your scoreboard for another race, press the 'LAP/RESET'-button. The scoreboard returns to the starting point:



5.1.2 Concentration clock mode (=mode 2 => you see '22222')

The concentration clock mode is primarily used for athletic FIELD-events such as high jump, long jump and pole vault,... Be sure that the scoreboard is in mode 2. To go from mode 1 to mode 2, (see 4.1.: The Various Modes), simultaneously press the three buttons on your manual control and release them again.

Default Setting

The scoreboard is set default to:



This setting means that the scoreboard starts to count down from 10 seconds to 0 as soon as you press the 'START'-button on your manual control:



When the scoreboard is set to 00:00, you can again return to the 'initial time' setting by pressing the 'RESET'-button. Should you wish to return sooner to your default setting, press the 'STOP'- button and subsequently the 'RESET'-button.

How To Initialize This Countdown Time?

Obviously in reality these 10 seconds are usually not sufficient. Suppose we want to change this default setting and put it on 1 minute. What is the procedure? As soon as you enter the 'Countdown' = 'Concentration time' mode 2 (2 2 2 2 2 2), you can add 10 seconds each time you shortly press the 'LAP/RESET'-button on your manual control. To change from 10 seconds to 1 minute, you need to press this button five times. To start the countdown, press the 'START'-button. In case you have already given a 'START' and a 'RESET', you can re-adjust the concentration time by keeping the 'LAP/RESET'-button pressed for about two seconds (3 seconds for LED boards) until you see '2 2 2 2 2 2' on your display.



Maintain pressed for about 2 seconds (3 seconds for LED boards). Now you can re-adjust mode 2

5.1.3 Day mode (=Mode 3 => you see '333333')

The Start

The day time mode is used for road races such as a marathons. Now hours, minutes and seconds are being displayed instead of minutes, seconds and hundredths of a second. To start the running time, press the 'START'-button:

Introducing a new starting time

In case the operation of the scoreboard is interrupted for whatever reason (e.g. broken battery or transportation of the scoreboard from the start to the finish-line), you can still resume the thread by introducing a time at which you will again start the timer (the marathon is still going on in the meantime).

What should you do?

- Again you return to the mode 3. After displaying '333333', the scoreboard now displays six zeroes:



- Suppose you want to start the time after exactly one hour and five minutes. To add one hour, press the 'STOP'-button once. The display on your scoreboard will be:



- Next you will enter the five minutes. To do so, press the 'LAP/RESET'-button five times. The display on your scoreboard will now be:



- Exactly after one hour and five minutes after the starting shot (naturally you have kept a backup timing on a digital watch), you start the running time of this race by pressing the 'START'- button on your manual control. Now pull out the manual control to avoid that you would accidentally press the 'STOP'-button.

NOTE: This 'time-setting' function can be used to re-set the scoreboard for a race time OR to set the scoreboard on a daytime.

5.1.4 GPS mode for Electromechanical Scoreboards or LED mode for LED scoreboards (= Mode 4 => you see '444444')

GPS mode for electromechanical scoreboards

Is meant to connect a GPS-clock to your scoreboard for the display of an exact day time (via satellite reception). This is mainly used to display exact starting times for the athletes or cyclists. For example in time trials. Insert the GPS-clock into the serial connection underneath your scoreboard, and the scoreboard will synchronize to the GPS-time after about one minute. After synchronization, you may unplug the GPS receiver, and let the scoreboard run further on its internal clock, or leave the GPS receiver connected for continuous GPS time display.

LED mode for LED scoreboards

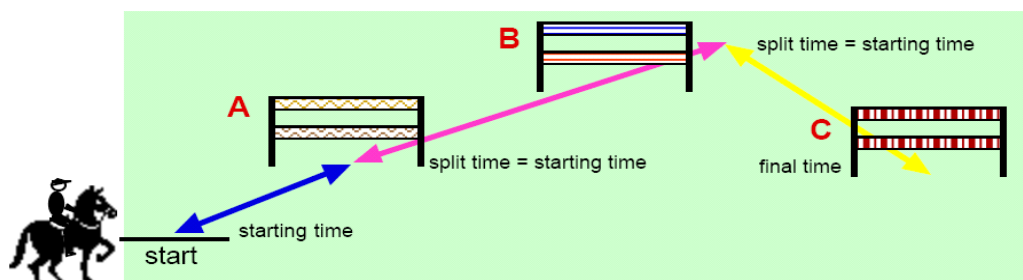
Our latest MacFinish software programs can send the running time direct to the LED scoreboard once is it set in Mode 4. Other information can be send to the scoreboard using our LED Scoreboard Manager which you can download from our website. The manual for this LED Scoreboard Manager can be found in the same file which contains the installation software.

5.1.5 Jumping mode (=Mode 5 => you see '555555')

This mode is especially programmed for equestrian sport.

In equestrian sports, it is sometimes required to know the times realized by a participant over specific parts of the track. By means of mode 5 you can generate times between for example two obstacles.

The split time at obstacle A is transformed into the starting time for the next part of the course, etc:



At the start of the race, press the 'START'-button on your manual control once! Time starts running.

At obstacle A, a time is required over the blue part of the course. Press the 'LAP/RESET'-button once to generate this time. For example:



These split times are being considered as the starting times for the next part of the track (the internal clock of the scoreboard again starts from 0 and continues to run!) After a while, press the 'START'-button to display the running time over the purple part of the track. For example:



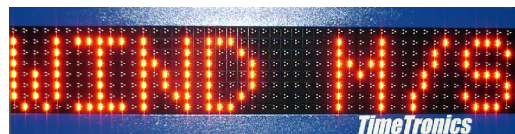
You notice that the time over the purple part is already running for 15 seconds. At obstacle B, you again press the 'LAP/RESET'-button and you repeat the same procedure for as many times as necessary.

At obstacle C, (final time over the yellow part), simply press 'STOP' (as this is the finish-line).

5.1.6 Wind Result Display (=Mode 6 => you see '666666')

When you connect your TTC408 to a TimeTronics WindSpeed you can display the result of the wind measurement on your scoreboard.

Approved wind measurement will be displayed in green. Wind measurement above +2.0 M/S will be displayed in red



5.1.6 Concentration Clock (3 Digits)

Its operation is similar to mode 2 of the running time scoreboard. For that, we refer to chapter 4.1.2.

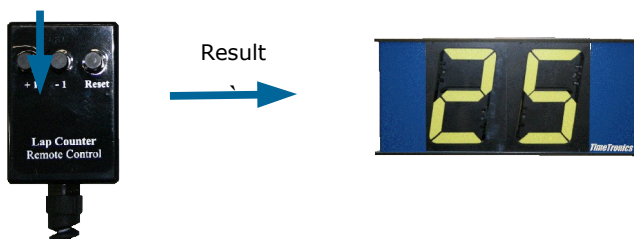


5.1.7 LapCounter (2 Digits or 3 x 2 Digits)

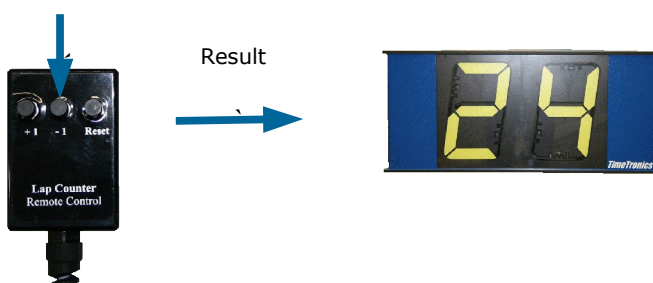


The manual control of this scoreboard has a different labeling sticker:

Suppose we are dealing with a 10 Km race on a normal athletics track. This means that the athletes will need to run 25 laps. It is thus the intention to display 25. You can simply accomplish that by pressing the '+1'-button 25 times in a row, each time adding one unit.



When the leading athlete enters the straight, press the '-1' button:



Repeat the same procedure until reaching 0. When you press the 'RESET'-button, you will return to 0 at all times. If you have made a mistake, you can always correct it by either pressing the '+1' or '-1' buttons.

6. GENERAL NOTE

When you pull out the battery (=switch off your scoreboard), the scoreboard will memorize the mode which you last used. When connecting the battery again, the scoreboard will automatically return to this mode.

© Copyright 2012 TimeTronics. All rights reserved.

TimeTronics
Lammerdries 23b
B-2250 Olen
Belgium
Tel. : +32 (0) 14 23 19 11
Fax : +32 (0) 14 23 20 24